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2. Phosphites--Chemical reactions
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 - II. Polezhayeva, N. A.
 - III. Vinogradova, V. S.
 - IV. ATS-69M45R
 - V. Associated Technical Services, Inc., East Orange, N. J.

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Chemical reactions
2. Butadienes--Chemical
reactions
3. Piperylene--Chemical
reactions
- I. Arbuzov, B. A.
- II. Nikitina, V. L.
- III. ATS-07M46R
- IV. Associated Technical
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The action of trialkyl tin halide compounds on trialkyl
phosphites leads to the formation of the ester of tri-
alkyl tin phosphonic acid. The compound obtained is
the first representative of tin phosphorous compounds
with a directly bonded P-Sn. The P-Sn bond in the
product obtained is unstable and can be broken easily at
room temperature by the action of 5% HCl, chlorine
and acetyl chloride. Water in the absence of acids
does not hydrolyze the ester of trialkyl tin phosphonic
acid at 100°. By heating on a water bath with an
(Chemistry--Organic, TT, v. 5, no. 9) (over)

1. Tin compounds
(Organic)--Synthesis
2. Phosphorus compounds
(Organic)--Synthesis
1. Arbuzov, B. A.
- II. Pudovik, A. N.
- III. Title: Synthesis...

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By the interaction of dialkyl tin dihalide compounds on
trialkylphosphite a new type of phosphorus tin com-
pound is obtained, the ester of dialkyl tin diphosphonic
acid. The compounds show dimerism. The P-Sn bond
in $R_2Sn(PO(OR)_2)_2$ is unstable and is easily broken by
the action of HX acids, halides and NaOH. By the in-
teraction of CH_3SnI_3 with trimethyl phosphite,
 $CH_3Sn(PO(OCH_3)_2)_3$ is obtained. It cannot be isolated
in an analytically pure state. An analogous reaction
occurs between tin iodide and triethylphosphite. In
(Chemistry--Organic, TT, v. 5, no. 9) (over)

1. Tin compounds
(Organic)--Synthesis
2. Phosphorus compounds
(Organic)--Synthesis
1. Arbuzov, B. A.
- II. Grechkin, N. P.
- III. Title: Synthesis...

Office of Technical Services

61-10744

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LINKED TO PHOSPHORUS. [1960] 16p.
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By the action of alkyl tin halide derivatives on the
esters of phenylphosphonous and diphenylphosphinous
acids phosphorous tin compounds are synthesized
containing the phenyl radical linked to P. In the com-
pounds the bond P-Sn is easily ruptured by the action
of HCl , KOH and Cl_2 . Pure water does not rupture
the P-Sn bond upon boiling. (Author) (See also
61-10746)

(Chemistry--Organic, TT, v. 5, no. 9)

1. Tin compounds
(Organic)--Synthesis
2. Phosphorus compounds
(Organic)--Synthesis
- I. Arbuzov, B. A.
- II. Grechkin, N. P.
- III. Title: Synthesis

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2. Phosphorus compounds
(Organic)--Synthesis
3. Ketones--Chemical
reactions
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- II. Vinogradova, V. S.
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